

Title (en)
SYSTEMS AND METHODS FOR MITIGATING LATENCY IN A DATA DETECTOR FEEDBACK LOOP

Title (de)
SYSTEME UND VERFAHREN ZUR MINDERUNG DER LATENZ IN EINER DATENDETEKTOR-RÜCKKOPPLUNGSSCHLEIFE

Title (fr)
SYSTÈMES ET PROCÉDÉS POUR ATTÉNUER LE RETARD AFFECTANT UNE BOUCLE DE RÉTROACTION DE DÉTECTEUR DE DONNÉES

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Abstract (en)
[origin: WO2009142620A1] Various embodiments of the present invention provide systems and methods for mitigating latency in a data detector feedback loop. For example, a method for reducing latency in an error corrected data retrieval system is disclosed. The method includes performing an analog to digital conversion at a sampling instant to create a digital sample, and performing a data detection on the digital sample to create a detected output. The detected output is compared with the digital sample to determine a phase error. During an interim period, the digital sample is adjusted to reflect the phase error to create an adjusted digital sample. After the interim period, the sampling instant is adjusted to reflect the phase error.

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